

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

501-609
 (19) World Intellectual Property Organization
 International Bureau



(43) International Publication Date
 31 July 2003 (31.07.2003)

PCT

(10) International Publication Number
 WO 03/062264 A2

(51) International Patent Classification⁷:

C07K

(21) International Application Number: PCT/US03/01426

(22) International Filing Date: 16 January 2003 (16.01.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
 60/349,893 16 January 2002 (16.01.2002) US

(71) Applicant (for all designated States except US): REGENTS OF THE UNIVERSITY OF CALIFORNIA [US/US]; 1111 Franklin Street, Oakland, CA 94607-5200 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): SPEAR,A., Matthew [US/US]; 10680 Vista Del Agua, San Diego, CA 92121 (US).

(74) Agents: CARROLL, Peter, G. et al.; Medlen & Carroll, LLP, Suite 350, 101 Howard Street, San Francisco, CA 94105 (US).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 03/062264 A2

(54) Title: FUNCTIONAL LIGAND DISPLAY

(57) Abstract: The present invention relates to methods involving the selection of peptides from complex displayed libraries to induce or detect signal transduction pathway activation. In one embodiment, the present invention provides methods for the selection of peptides capable of binding a viable cell and subsequently triggering or detecting programmed cell death (e.g., apoptosis). The present invention also provides compositions comprising the selected peptides suitable for medicinal and research use.